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# New hash functions and their use in authentication and set equality

muni.cz (POF)

MN Weaman, JL Carter - Journal of computer and system sciences. 1981 - Elsevier

... DIFF(S S2)Assigns S, to be the symmetric difference of S, and S2. ... x, S;) request is encountered. it is necessary to associate with the pair (x, S;) in the first hash table a pointer ... A multiset is similar to a set, except one counts how many times an element has been inserted into the ...

Cited by 672 - Related articles - All 5 versions

## [PDF] CHARM: An efficient algorithm for closed itemset mining

psu.edu (PDF)

MJ Zaki, CJ Hsiao - 2nd SIAM International Conference on Data Mining, 2002 - Citeseer

... 3) It uses a fast hash-based approach to eliminate non-closed itemsets during subsumption ... Finally, CHARM uses simple set difference (or intersection) operations, and requires no complex internal data ... a tidset Y, we denote its corresponding itemset as i(Y), ie, the set of items ...

Cited by 516 - Related articles - View as HTML - All 28 versions

## Removing unnecessary synchronization in Java

osuledu (PDF)

J Bogda, U Hölzle - Proceedings of the 14th ACM SIGPLAN ..., 1999 - portal.acm.org

... put(x,y) into put(hashtable,x,y,o). From the other end of the call site, the method prototype looks like void put(Hashtable this, Object ... Table 2. Constraints for Phase 2 ... As a final test, we check if hl is reachable from an alias set of any formal parameter of m. Since it is not, m's scope ...

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## Perfect hashing functions: a single probe retrieving method for static sets

R Sprugnoli - Communications of the ACM, 1977 - portal.acm.org

... If D is the set of divisors of some difference wj -  $w \sim (j > i)$ , condition (3.1) is verified if and only if M ~ D. In what follows, we suppose M ~ D if not otherwise stated. We are interested in obtaining remainder reduction perfect hashing function of the form: ...

Cited by 142 - Related articles - All 2 versions

## The string-to-string correction problem with block moves

WF Tichy - ACM Transactions on Computer Systems (TOCS), 1984 - portal acm.org

 $\dots$  Once an LCS has been obtained, all symbols that are not included in it are considered **differences**.  $\dots$  the first k-1 block moves and any nonempty prefix of move k. Thus, any **set** equivalent to the  $\dots$  Note that the index can be prepared in linear time, either by using a **hash table** or by  $\dots$ 

Cited by 173 - Related articles

## YAP3: improved detection of similarities in computer program and other texts

MJ Wise - Proceedings of the twenty-seventh SIGCSE technical ..., 1996 - portal.acm.org ... differences by either signalling an insertion/deletion (Levenshtein) or by skipping over the extraneous elements (LCS). ... transposed code segments. However, the problem exists of finding the initial set of unique. ... PP +, \_, KR hash-value for each hit m hash-table do k:=s /\*Extend ... Cited by 135 - Related articles - Bi. Direct - All 12 versions

#### An efficient representation for sparse sets

P Briggs, L Torczon - ACM Letters on Programming Languages and ..., 1993 - portal.acm.org ... We have shown constant-time implementations for member, add-member, and delete-member. ... given the existence of an efficient **set-difference**. 3.2 Comparisons with a Bit Vector Representation **Table** I compares the asymptotic time complexities of several **set** operations ... Cited by 37 - Related articles - All 7 versions

### Minimal perfect hash functions made simple

RJ Cichelli - Communications of the ACM, 1980 - portal.acm.org ... The only observable **difference** is that women appear to be more uniform in their academic ... The backtracking search procedure then attempts to find a **set** of associated values which will ... is allowed to be associated with a character, and the density of the resultant **hash table**. ...

Cited by 131 - Related articles

## Wide-area cooperative storage with CFS

F Dabek, MF Kaashoek, D Karger, R ... - Proceedings of the ..., 2001 - portal.acm.org ... significant bits in the ID-space distance between ni and the target key id, and the ones function counts how many bits are **set** in that **difference**; this is ... If the node at that IP address admits to having n's ID, and the claimed IP address and virtual node index **hash** to the ID, then ...

Cited by 1649 - Related articles - BL Direct - All 127 versions

# [PDF] A study of index structures for main memory database management systems

TJ Lehman, MJ Carey - Conference on Very Large Data Bases, 1986 - cse.cnu.ac.kr ... The main **difference** is that comparisons are made with the minimum and maximum values of the ... To retrieve a **set** of tuple pointers corresponding to a single value, one simply searches ... Linear **Hashing** is very similar to Chain-bucket **Hashing**, except that its **hash table** is dynamic ...

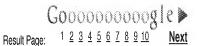
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[CITATION] A comparison of two process tracing methods for choice tasks

GL Lohse, EJ Johnson - System Sciences, 1996., Proceedings of the Twenty- ..., 1996

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### Comparison of two information retrieval methods on videotex: Tree-structure versus alphabetical directory

JW Tombaugh, SA McEwen - ... of the 1982 conference on Fluman ..., 1982 - portal.acm.org
Comparison of Two Information Retrieval Methods on Videotex: Tree-structure Versus Alphabetical
Directory ... p>.15), users tended to switch out of the tree method and into the directory method more
often than in the opposite direction and this difference was statistically ...

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## Fast text access methods for optical and large magnetic disks: Designs and performance comparison

C Faloutsos, R Chan - ... of the 14th International Conference on ..., 1983 - books.google.com Fast Text Access Methods for Optical and Large Magnetic Disks: Designs and Performance Comparison. ... which returns values in the range (0,(5—1)) and determines the slot in the directory. The difference is that DCBS makes an effort to dis-tinguish among synonyms, by using ...

Cited by 51 - Related articles - All 11 versions

# Comparison and analysis of software and directory coherence schemes

YC Chen, AV Veidenbaum - Proceedings of the 1991 ACM/IEEE ..., 1991 - portal acm.org

... The goals of this study are to **compare** the perfor- mance of a software scheme and a ... A detailed classification and analysis of the invalidations show their impact on performance for the **directory** scheme. ... shared at compile time, and the **difference** in their cache behavior is shown ...

Cited by 22 - Related articles - All 5 versions

# An empirical comparison of the Kendall Square Research KSR-1 and Stanford DASH multiprocessors

JP Singh, T Joe, JL Hennessy, A ... - Proceedings of the 1993 ..., 1993 - portal.acm.org

... In this piper, we **compare** the parallel perfor-mance of a recent realization of each type of ... in common, including a shared address space with physically distributed memory, a scalable

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interconnection network and  $\operatorname{\textbf{directory}}$  -baaed cache ... However, they have important  $\operatorname{\textbf{differences}}$  ...

Cited by 72 - Related articles - All 9 versions

### A comparison of large-scale software installation methods on NT and UNIX

M Gomberg, R Evard, C Stacey - Proceedings of the Large Installation ..., 1998 - usenix.org

... Shortcut: Allows us to copy .lnk files to the right places without remaining linked to the source location. Windiff: A graphical comparison tool that can be used to look **directory differences**. Instsry: Allows installation of services from the command line. ...

Cited by 7 - Related articles - All 9 versions

## [PDF] A comparison of Internet resource discovery approaches

MF Schwartz, A Emtage, B Kahle, BC Neuman - Computing Systems, 1992 - Citeseer ... For example, one can enumerate all possible entries in one or a small number of X.500 servers and **compare** them with a presented key, even if there is no index. ... Attribute-based naming highlights another **difference** between an index and a **directory** graph. ...

Cited by 144 - Related articles - View as HTML - BL Direct - All 31 versions

#### An evaluation of directory schemes for cache coherence

A Agarwal, R Simoni, J Hennessy, M ... - Proceedings of the 15th ..., 1988 - portal.acm.org ... While the bus cycles metric allows us to **compare** the relative merits of various cache ... is used to accomplish that specification (eg, write-through with bus snooping, cen- tralized **directory**). ... This distinction and the **difference** in cost asso- ciated with some events accounts for their ... Cited by 462 - Related articles - Bt. Direct - All 25 versions

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# The AT&T Internet Difference Engine: Tracking and viewing changes on the web

one can view HTML as a hier- archical document and compare the parse tree or ...

F Douglis, T Ball, YF Chen, E Koutsofios - World Wide Web, 1998 - Springer ... comprised of four sen- tences and turned it into a list (<UL>) of four sentences (each starting with <LI>), no difference would be flagged because the content matches exactly. At the other extreme,

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# IPDFI Performance comparison of alternative web caching techniques

H Hassanein, Z Liang, P Martin - Proceedings of the Seventh ..., 2002 - trLcs.queensu.ca ... In this paper, we **compare** a number of Web caching techniques ... Both use a Bloom Filter to represent the **directory** of cache content ... The major **difference** between them is that Summary Cache extends ICP to update the **directory**, while Digest Cache uses HTTP to transfer **directory** ...

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## IPDFI Designing a generalized NF2 model with an SQL-type language interface

<u>vidb.org</u> [PDF]

P Pistor, F Andersen · Proceedings of the 12th International Conference ..., 1986 · vidio.org ... 2 (2.3) b/l, HERE boolean-expr or by a concrete query on table DESCRIPTORS: ... accessing elements by s-lbscripts Multiset-Specific Operations intersect ion, set difference, binary union ... Comparison Operations I ists, multisets, template matching ("wi Id cards") strings nume ralls ... Otted by 98 · Related articles · View as HTML · All 8 versions

### Comparing program phase detection techniques

psu.edu (PDF)

AS Dhodapkar, JE Smith - Proceedings of the 36th annual IEEE/ ..., 2003 - portal acm.org ... Since the relative working set distance is a normalized metric, the maximum possible working set difference is 100%. ... Comparison ... The microarchitecture parameters used for performance measurements are shown in Table 1. The results presented are averaged over all SPEC ... Cited by 130 - Related articles - Bt. Direct - All 16 versions

## [CITATION] Algorithms for approximate FSM traversal

H Cho, GD Hachtel, E Macil, B Plessier, F Somenzi - 30th Conference on Design ..., 1993 Cited by 168 - Related articles - BL Direct - All 5 versions

## Efficient computation of subqueries in complex olap

<u>unibz.it</u> [PDF]

MO Akinde, HB Michael... - 2003 - computer.org

... in an OLAP context with huge fact ta- bles, where performing joins or **set-difference** operations can ... Figure 4 shows the performance for a query containing the quantified comparison predicate ALL. The **table** sizes for both the inner and outer query was 40k, 80k, 120k, and 160k ...

Gried by 13 - Related articles - BL Direct - All 8 versions

### A query service for a software engineering database system

M Tedjini, I Thomas, G Benoliel, F Gallo, ... - Proceedings of the ..., 1990 - portal.acm.org

... Section 4 contains a comparison of the DQMCS with other work on query mechanisms for software engineering data ... Performs the **set difference** between two compatible relationship **tables**. ... We

http://scholar.google.com/scholar/hl=en&q=%22set+difference%22+compare+tab...btnG=Search&as subj=eng&as sdt=8000000000001&as ylo=&as vhi=2003&as vis=0 (1 of 3)7/6/2010 7:31:32 AM

now discard those columns of the table that no longer interest us (all of them except ...

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### An efficient representation for sparse sets

P Briggs, L Torczon - ACM Letters on Programming Languages and ..., 1993 - portal.acm.org

cl] oose-on e o(u) 0(1) cardin ali tey o(u) 0(1) forall o(u) 0(7\$) copy o(u) 0(71) compare o(u ...

... given the existence of an efficient **set-difference**. ... **Table** I. Asymptotic Time Complexities ... Vector Sparse member o(1) o(1) add-member ()(1) o(1) delete-member o(1) o(1) clear-set o(u) o(1)

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## Query processing techniques in the summary-table-by-example database query language

G Özsoyo-lu, V Matos, M Özsoyo-lu - ACM Transactions on ..., 1989 - portal.acm.org

... All the queries use a Symphony Database with five relations and one summary **table**, which are ... one can push the negation inside by rearranging the formula and then **remove** each negation ... to the left of an atomic formula (eq. ~(a < b)) by replacing the comparison operator with ...

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### Fuzzy rough set techniques for uncertainty processing in a relational database

T Beaubouel, FE Petry - International Journal of Intelligent ..., 2000 - interscience.wiley.com

... See **Table** VI of the Appendix for an example. ... The most useful of these for database purposes are **set difference**, union, and intersection. ... Ä 4 In rough intersection, comparison of tuple values is based on redundancy, as opposed to the standard relational model, which bases ...

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# Set-oriented production rules in relational database systems

J Widom, SJ Finkelstein - Proceedings of the 1990 ACM SIGMOD ..., 1990 - portal.acm.org

... and ex- isted prior to the first transltlon Note our "mls- use" of the **set difference** operator here ... name, empno (which 1s umque-a key for the **table**), salary, and deptno **Table** dept mam ... throughout the paper Example 3.1 Our first example dustrates the "cas- caded delete" method of ...

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## Isolating cause-effect chains from computer programs

A Zeller - ACM SIGSOFT Software Engineering Notes, 2002 - portal.acm.org

... t with cc c\_cc \_cx\_/i is 1-minimal--that X. Furthermore, the **set difference** A = cx ... the nar- rowing process using Delta Debugging, we end up in trouble, as shown in **Table** 3. Step ... test function is also set up as discussed in Section 2. At which locations do we **compare** executions ...

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